Title (en)

PORT OPENING WITH SUPERCOOLING

Title (de)

PORTÖFFNUNG MIT SUPERKÜHLUNG

Title (fr)

OUVERTURE D'ORIFICE AVEC SUPER-REFROIDISSEMENT

Publication

EP 2956731 A1 20151223 (EN)

Application

EP 14704372 A 20140214

Priority

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Abstract (en)

[origin: WO2014125088A1] A combined evaporator and condenser (1100) is manufactured from a number of stacked heat exchanger plates (980) provided with a pressed pattern of ridges and grooves for keeping the plates on a distance from one another for creating interplate flow channels (1180, 1200). The evaporator portion (1120, 1150) of the combined evaporator and condenser (1100) has a coolant outlet (1210) connectable to an expansion valve (R), and a connection between the condensor portion and the expansion valve (R) runs through the evaporator portion.

IPC 8 full level

F28F 27/02 (2006.01); **F25B 39/02** (2006.01); **F25B 39/04** (2006.01); **F28D 9/00** (2006.01)

CPC (source: EP US)

F25B 39/022 (2013.01 - EP US); **F25B 39/04** (2013.01 - EP US); **F25B 40/00** (2013.01 - EP US); **F28D 9/0037** (2013.01 - US); **F28D 9/005** (2013.01 - EP US); **F28D 9/0093** (2013.01 - EP US); **F28F 9/026** (2013.01 - US); **F28F 27/02** (2013.01 - EP US)

Citation (search report)

See references of WO 2014125089A1

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2014125088 A1 20140821; AU 2014217837 A1 20150924; AU 2014217838 A1 20150924; CN 105008850 A 20151028; CN 105008850 B 20170901; CN 105121992 A 20151202; CN 105121992 B 20180320; EP 2956730 A1 20151223; EP 2956730 B1 20170503; EP 2956731 A1 20151223; EP 2956731 B1 20190206; JP 2016507044 A 20160307; JP 2016507045 A 20160307; JP 6381554 B2 20180829; JP 6429804 B2 20181128; KR 102187196 B1 20201204; KR 102273692 B1 20210706; KR 20150120397 A 20151027; KR 20150120398 A 20151027; US 10139141 B2 20181127; US 10378799 B2 20190813; US 2015362269 A1 20151217; US 2015377528 A1 20151231; WO 2014125089 A1 20140821

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